

Title (en)
BELT-DRIVEN COOLING-WATER PUMP

Publication
EP 0349702 A3 19900816 (DE)

Application
EP 89102743 A 19890217

Priority
DE 3822702 A 19880705

Abstract (en)
[origin: EP0349702A2] A cooling-water pump with a belt drive, especially for use on the pump casing of a combustion engine, comprising a casing cover (2) through which the pump shaft (1) passes, a pump shaft bearing (3) and a pump shaft seal (4), a pump impeller (5) and a pulley (6). The pump shaft (1) and the pulley (6) are integrally formed and preferably consist of plastic. <IMAGE>

IPC 1-7
F04D 29/04; **F04D 13/02**; **F01P 5/12**

IPC 8 full level
F04D 29/043 (2006.01); **F04D 13/02** (2006.01); **F04D 29/04** (2006.01); **F04D 29/046** (2006.01); **F04D 29/049** (2006.01); **F04D 29/12** (2006.01); **F04D 29/20** (2006.01); **F04D 29/28** (2006.01)

CPC (source: EP US)
F04D 29/0465 (2013.01 - EP US); **F04D 29/049** (2013.01 - EP US); **F04D 29/126** (2013.01 - EP US); **F04D 29/20** (2013.01 - EP US); **Y10T 403/606** (2015.01 - EP US)

Citation (search report)

- [X] FR 2250035 A1 19750530 - SKF IND TRADING & DEV [NL]
- [X] FR 2230225 A5 19741213 - PEUGEOT & RENAULT [FR]
- [A] DE 3742085 A1 19890622 - SKF GMBH [DE]
- [A] FR 2160201 A5 19730622 - SKF IND TRADING & DEV
- [A] US 3413926 A 19681203 - RICHARD AYSON
- [A] FR 2289777 A1 19760528 - CHRYSLER FRANCE [FR]

Cited by
CN103629143A; DE102006021446A1; WO2007128716A1

Designated contracting state (EPC)
AT DE ES FR GB IT SE

DOCDB simple family (publication)
EP 0349702 A2 19900110; **EP 0349702 A3 19900816**; BR 8903291 A 19900925; DE 3822702 A1 19900315; DE 3822702 C2 19920730; JP H0264293 A 19900305; JP H081188 B2 19960110; MX 173619 B 19940318; US 5026253 A 19910625

DOCDB simple family (application)
EP 89102743 A 19890217; BR 8903291 A 19890704; DE 3822702 A 19880705; JP 17208389 A 19890705; MX 1553989 A 19890405; US 35517489 A 19890522